

Workshop #7

October 28, 2015

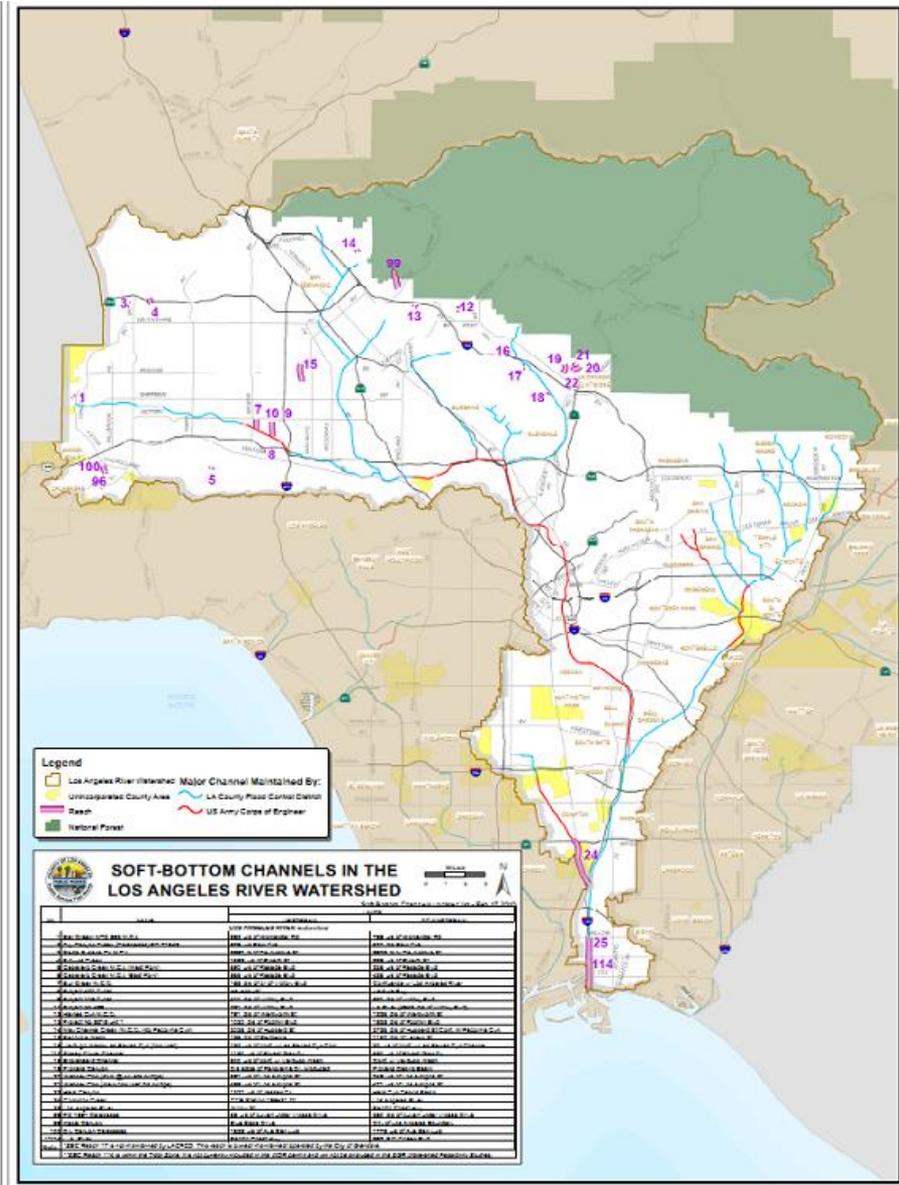
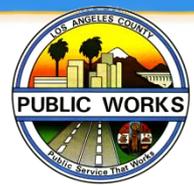


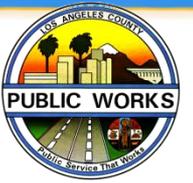
SBCs within the LA River Watershed

Reach No.	Name	Length (ft)	Percentage of Total Length
1	Bell Creek	196	0.46%
2	Dry Canyon Creek	1,546	3.66%
3	Santa Susana Creek tributary to Brown Creek	75	0.18%
4	Browns Canyon Creek	1,243	2.94%
5	Caballero Creek, West Fork	652	1.54%
6	Caballero Creek M.C.I., East Fork	160	0.38%
7	Bull Creek	300	0.71%
8	Tributary to the Sepulveda Flood Control Basin Project No. 470 outlet	529	1.25%
9	Tributary to the Sepulveda Flood Control Basin Project No. 106	120	0.28%
10	Tributary to the Sepulveda Flood Control Basin Project No. 469	4,194	9.93%
12	Haines Canyon Creek	437	1.03%
13	Tributary to Hansen Lake Project No. 5215 Unit 1	537	1.27%
14	May Canyon Creek	690	1.63%
15	Pacoima Wash	4,762	11.27%
16	Verdugo Wash-Las Barras Canyon channel inlet	130	0.31%
18	Engleheard Channel, tributary to Verdugo Wash	800	1.89%
19	Pickens Canyon, tributary to Verdugo Wash	2,406	5.70%
20	Webber Channel, tributary to Halls Canyon Channel	115	0.27%
21	Webber Channel (main channel inlet at bridge), tributary to Halls Canyon Channel	25	0.06%
22	Halls Canyon Channel	2,290	5.42%
24	Compton Creek	11,000	26.04%
25	Los Angeles River	4,800	11.36%
96	PD 1591 Calabasas	320	0.76%
99	Kagel Canyon	4,858	11.50%
100	Dry Canyon Calabasas	60	0.14%
Total:		42,245	



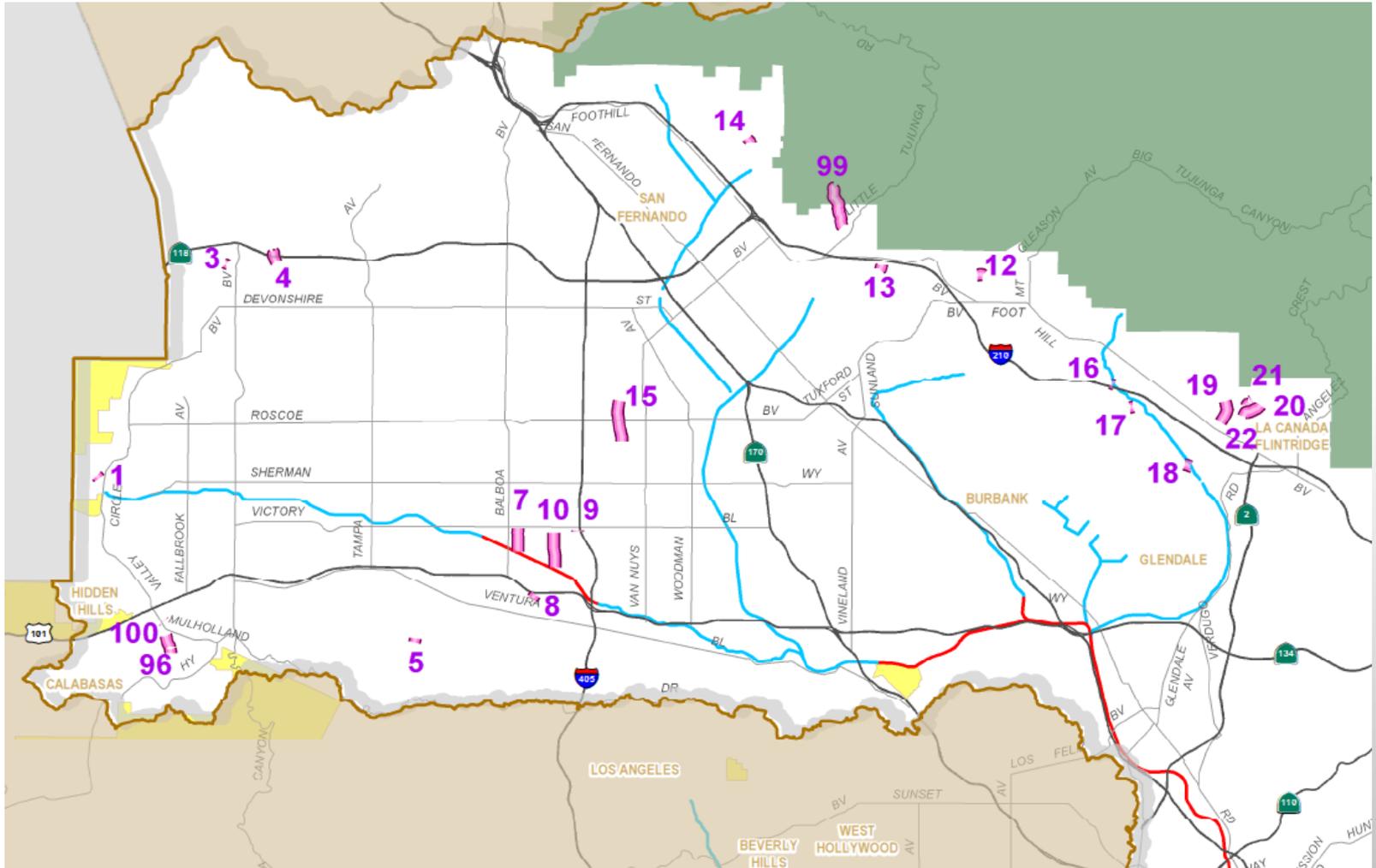
SBCs at LA River Watershed

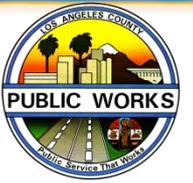




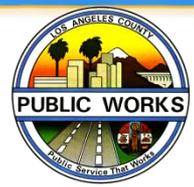
SBC Reaches

3,4,5,6,8,10,15,16,24,96,99,100





SBC Reaches With No excess Capacity (Getting Partially Cleared Annually)



SBC Reaches 3, 5, 6, 10,100

SBC reaches at LA River Vegetation Clearing

Reach No	Reach Name	Hydraulic Study Results		Current Operations	Proposed operations
		Existing Cond.	Clear Cond.		
3	Santa Susana Creek	Insufficient	No excess capacity	Hand cutting and clearing vegetation and trees will be done in an 18-foot-wide area by 75-foot long area at the inlet to the reach. Oak trees will be left in place.	Clear all
5	Caballero Creek (West Fork)	Insufficient	No excess capacity	Hand clearing of vegetation over a 20-foot-wide path along the centerline of the reach.	Clear all
6	Caballero Creek (East Fork)	Insufficient	No excess capacity	Hand clearing of vegetation over a 20-foot-wide path along the centerline of the reach.	Clear all
10	Project No. 469	Insufficient	No excess capacity	Vegetation will be cleared annually to the extent necessary to prevent restricting flows in the storm drain upstream of Victory Boulevard. This will require mechanical clearing of vegetation in the channel for approximately 4, 000 feet downstream of Victory Boulevard. Channel work will also include mechanical grading to train flows to the centerline of the channel.	Clear all
100	Dry Canyon,	Insufficient	No excess capacity	Hand clear all vegetation at the reach inlet. Bank vegetation will be left in place.	Clear all



SBC Reaches 2, 12, 13, 14, 18

SBC reaches at LA River Vegetation Clearing

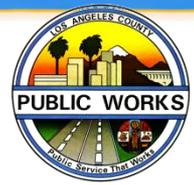
Reach No	Reach Name	Hydraulic Study Results		Current Operations	Proposed operations
		Existing Vegetation	Clear Vegetation		
2	Dry Canyon	Insufficient	No excess capacity	Annually clearing a 20-foot-wide path along the centerline of the channel by hand. A canopy of vegetation (trees along both banks) will be left in place. Vegetation will be removed from the openings in the crib walls to the extent necessary to prevent structural damage to the crib walls.	Clear all
12	Haines Canyon	Insufficient	No excess capacity	Hand clear all vegetation, except for the vegetation that was allowed to remain in 1997. This process will be repeated annually to prevent growth from restricting flows at the outlet to the reach.	Clear all
13	Project 5215 Unit 1	Insufficient	No excess capacity	Mechanical clearing the earthen outlet channel with a backhoe and hand cutting all vegetation from the first 250 feet of channel bottom (12-foot wide) downstream at the end of Christie Avenue. Bank vegetation and the remaining 300 feet of channel will not be cleared.	Clear all
14	May Channel	Insufficient	No excess capacity	Hand clear all vegetation.	Clear all
18	Engleheard Channel	Insufficient	No excess capacity	All vegetation will be cleared annually by manual methods. However, dead vegetation and tree branches from the area between the pipe and the wire revetments will be hand-cleared.	Clear all

Reach 3 – Santa Susana Creek





Reach 5 – Caballero Creek (West Fork)



Reach 6 – Caballero Creek (East Fork)



Reach 10 – Project 469



Reach 2 – Dry Canyon

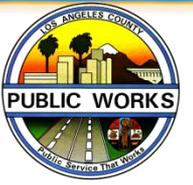


Reach 12 – Haines Canyon

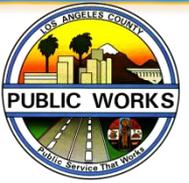


Reach 18 – Engleheard Channel





SBC Reaches With No excess Capacity (Getting Completely Cleared Annually)



SBC Reaches 4, 8, 15, 16, 24, 96, 99

SBC reaches at LA River Vegetation Clearing

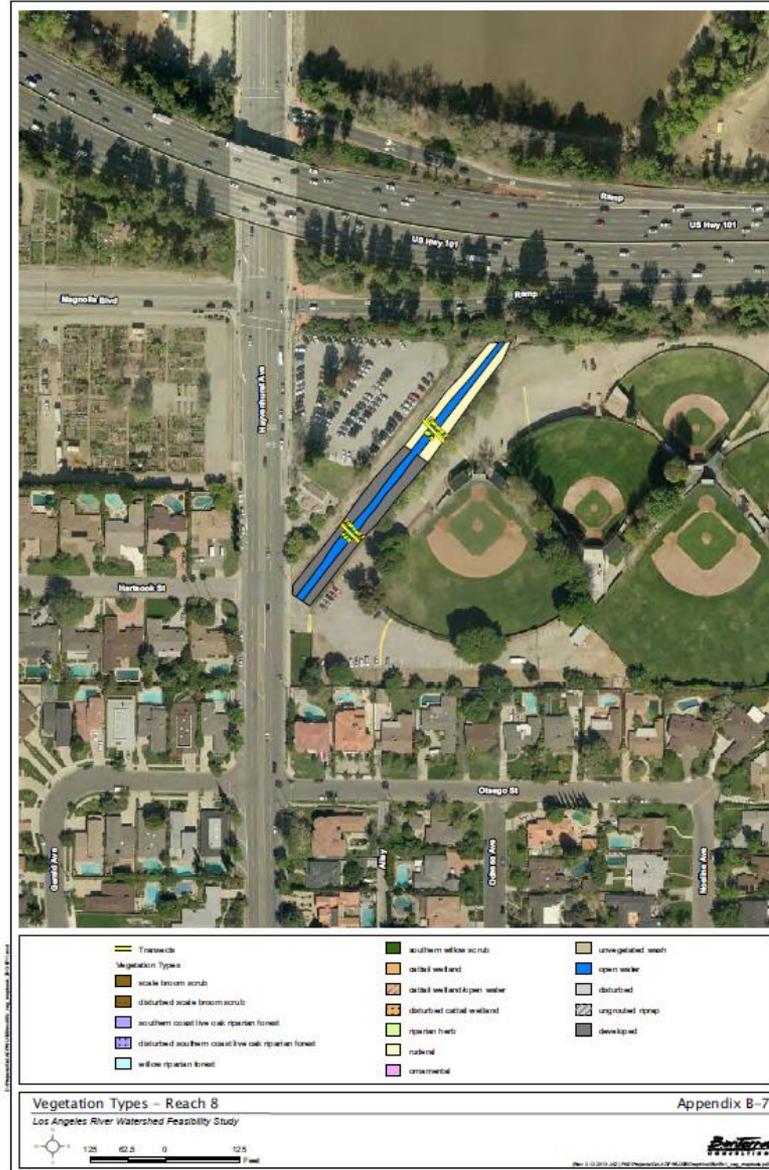
Reach No	Reach Name	Hydraulic Study Results		Current Operations	Proposed operations
		Existing Cond.	Clear Cond.		
4	Browns Creek	Insufficient	No excess capacity	Bank-to-Bank clearing of all vegetation within the rail and timber revetment using mechanical equipment.	Clear all
8	Hayvenhurst Drain	Insufficient	No excess capacity	All vegetation in this reach will be cleared annually using mechanical or manual methods.	Clear all
15	Pacoima Wash	Insufficient	No excess capacity	Mechanical equipment and hand cutting will be used to keep the reach clear of all vegetation.	Clear all
16	Verdugo Wash	Insufficient	No excess capacity	Hand clearing work will be used to keep the reach clear of all vegetation.	Clear all
24	Compton Creek	Insufficient	No excess capacity	"Remove all vegetation and/or restore hydraulic conveyance capacity of channel by driving rubber-tracked equipment over vegetated areas."	Clear all
96	PD 1591	Insufficient	No excess capacity	Remove all vegetation by hand (only within the dedicated right of way) from the inlet and outlet approaches to the box culvert under Vicasa Drive.	Clear all
99	Kagel Canyon	Insufficient	No excess capacity	<u>Hand clear</u> all vegetation.	Clear all



Reach 4 – Browns Creek

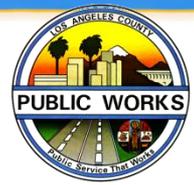


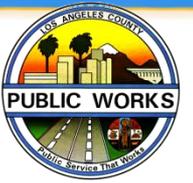
Reach 8 – Havenhurst Drain



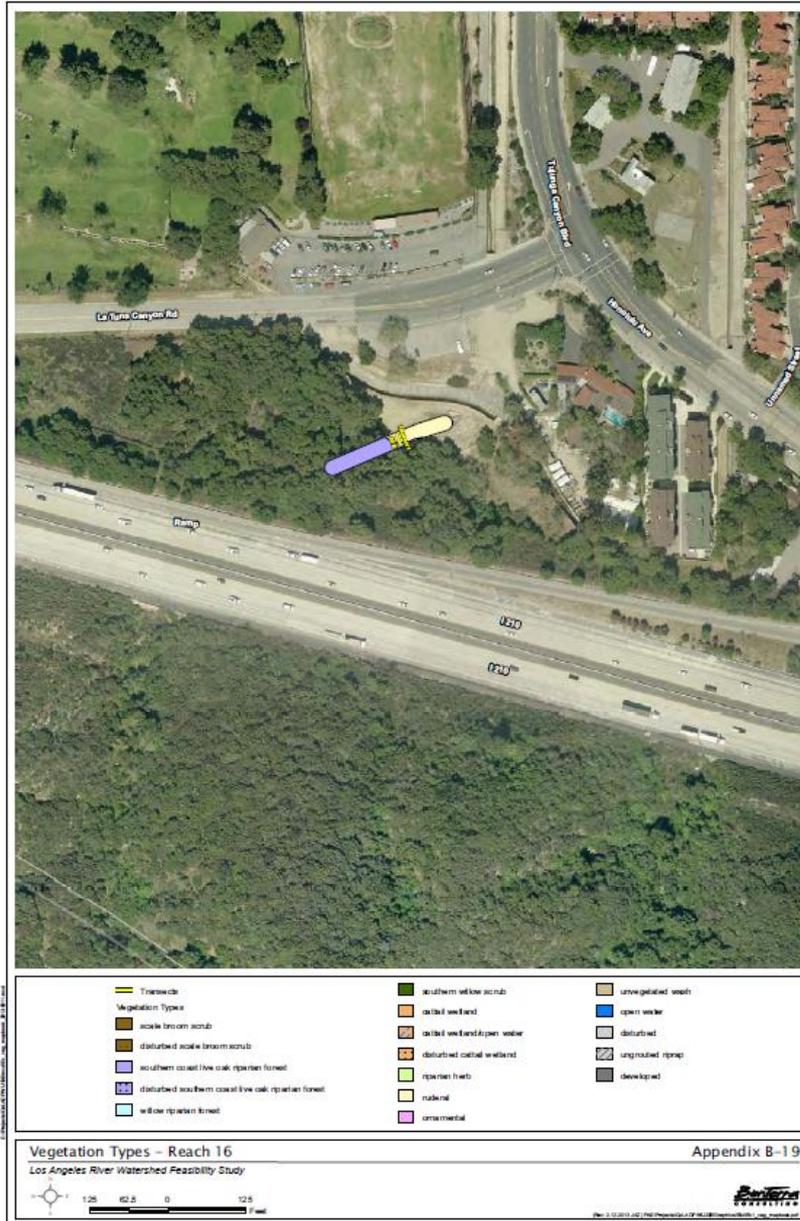


Reach 15 – Pacoima Wash





Reach 16 – Verdugo Wash

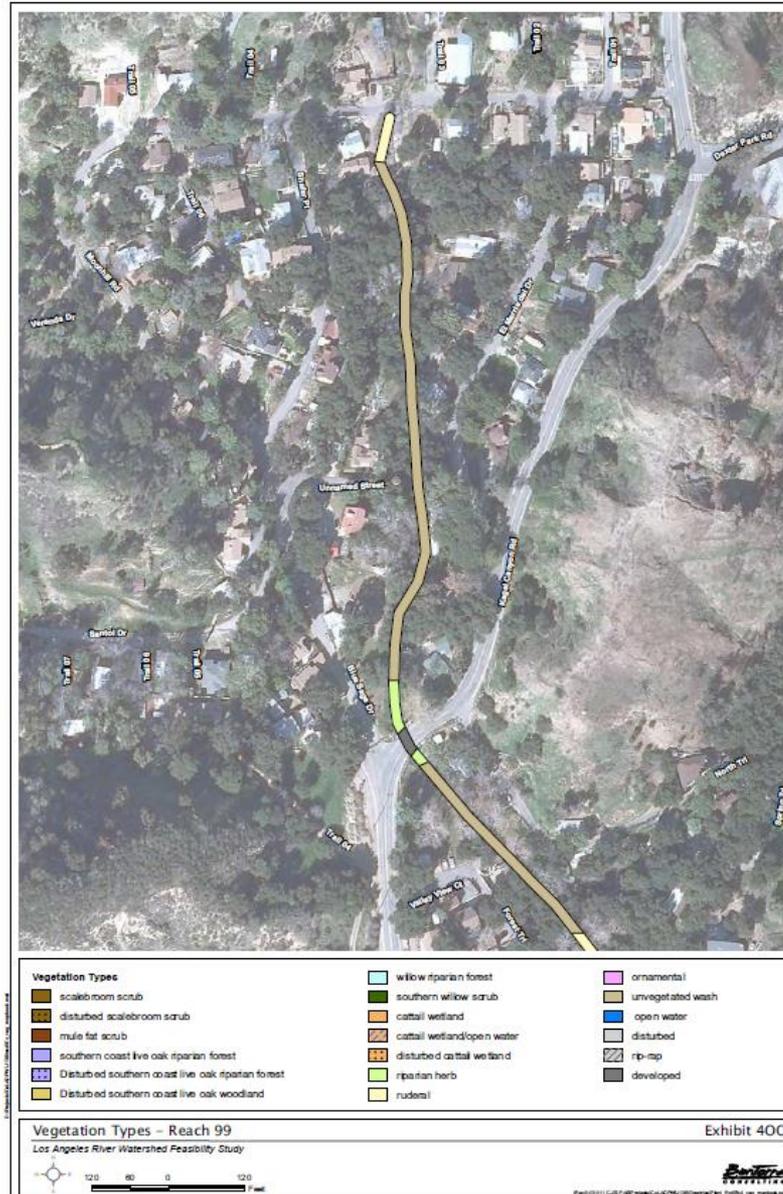
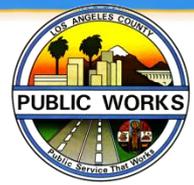


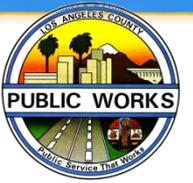
Reach 24 – Compton Creek



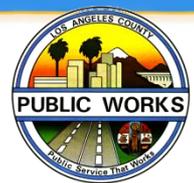


Reach 99 – Kagel Canyon





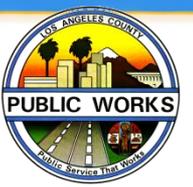
SBC Reaches with Additional Capacity



SBC Reaches 1,7,9,19,20,21,22,25

SBC reaches at LA River Vegetation Clearing

Reach No	Reach Name	Hydraulic Study Results		Current Operations	Proposed operations	Recommendation
		Existing Vegetation	Clear Vegetation			
1	Bell Creek	Capacity for additional vegetation	Capacity for additional vegetation.	Hand-cut a 15-foot wide "tunnel" through the vegetation to the right-of-way boundary to direct flows to the center of the reach inlet.	The reach clearing work will involve hand cutting a 15-foot wide "tunnel" through the vegetation to the right-of-way boundary to train flows to the center of the reach inlet.	Allow willow canopy to spread outside channel on north and south side. Allow native shrubs such as coyote bush and mule fat to become established in this area. Additionally, plant 3 sycamore trees on the north side and 2 on the south side of the outer edge of willow canopy.
7	Bull Creek	Capacity for additional vegetation	Capacity for additional vegetation.	Mechanical or manual methods to clear dead vegetation and tree limbs along the banks to ensure clear flow within the channel. No equipment will be driven on the invert. This work will be done only in the first 400 feet of natural channel downstream from the concrete channel outlet.	The work will involve hand clearing of vegetation and debris from the invert to ensure unimpeded flow within the reach. This work will be done only in the first 275 feet of the reach downstream from the concrete reach outlet to ensure that flow does not back up into the concrete reach upstream of Victory Boulevard.	Allow willows to grow and become mature at toe of the levee on EITHER the right (west) OR the left (east) banks. The willows would grow in single file and be trimmed (lolly-popped) to head height (no branches allowed to obstruct invert flows to head height). On average, no more than one tree every 10 feet.
9	Project 106	Capacity for additional vegetation	Capacity for additional vegetation.	Brush and tree trimming will be performed where needed to keep growth at the levels that were left in November 1997.	Brush and tree trimming will be performed where needed to keep growth at the levels that were left in November 1997	Brush and tree trimming will be performed annually to keep the invert free of vegetation and debris. Remove non-native ash trees at top of both banks and replace with native trees. Sycamore trees are the preferred native species for this location. Also, plant some native understory species with the sycamore trees including herbaceous and shrub species.
19	Pickens Canyon	Capacity for additional vegetation	Capacity for additional vegetation.	Mauanl removal of all vegetation adjacent to or growing out of the crib structures.	None	Except on the crib structures, allow native shrubs to grow on the invert of the entire length of the channel reach. Protect native shrubs by selectively removing non-native vegetation. Native trees will not be allowed to grow on the invert.

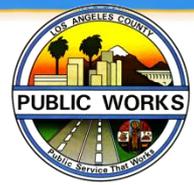


SBC Reaches 1,7,9,19,20,21,22,25 (Continued)

20	Webber Channel	Capacity for additional vegetation	Capacity for additional vegetation.	Mechanical equipment will be used to keep the reach clear of all vegetation.	Mechanical equipment will be used to keep the channel clear of all vegetation except for the native species on the right bank (looking downstream). Under the guidance of the monitoring biologist, native shrubs will be allowed to grow on the right bank and non-native species will be selectively removed.	Mechanical equipment will be used to keep the reach clear of all vegetation except for the native shrubs on the right (west) bank. Under the guidance of the monitoring biologist, native shrubs will be allowed to grow on the right (west) bank, and non-native species will be selectively removed. Do not allow oaks or other additional trees to grow on the banks.
21	Webber Channel (Main Channel)	Capacity for additional vegetation	Capacity for additional vegetation.	Hand clearing work will be performed to keep the reach clear of all vegetation.	"Hand clearing work will be performed to keep the reach clear of all vegetation.	Mechanical equipment will be used to keep the reach clear of all vegetation except for the native shrubs on the left (east) bank. Under the guidance of the monitoring biologist, native herbaceous and shrub species will be allowed to grow on the left (east) bank, and non-native species will be selectively removed. Selectively remove non-native ground cover species (e.g. ivy) from left (east) bank. Do not allow additional oaks or other trees to grow on the banks.
22	Halls canyon	Capacity for additional vegetation	Capacity for additional vegetation.	Manual removal of all vegetation adjacent to or growing out of the crib structures will be performed.		Except on the crib structures, allow native vegetation including trees, to grow to maturity on the invert of the entire length of this channel reach. Protect native shrubs by selectively removing non-native vegetation. Protect native shrubs by selectively removing non-native vegetation.
25	LA River	Capacity for additional vegetation	Capacity for additional vegetation.	Mechanical equipment will be used to remove all exotic vegetation. Riparian vegetation will be kept in place at the level that was left in November 1997.	Mechanical equipment will be used to keep the channel clear of all vegetation except for the native species on the left bank (looking downstream). Under the guidance of the monitoring biologist, native shrubs will be allowed to grow on the left bank and non-native species will be selectively removed."	Allow native willow woodland vegetation to mature and expand on both left (east) and right (west) banks. On the left (east) allow it to expand 50 feet from water's edge on the left (east) from PCH to almost Willow St. On the right (west) allow it to grow from water's edge to toe of levee. Additionally, selectively remove woody plants by hand tools only in marsh habitat.



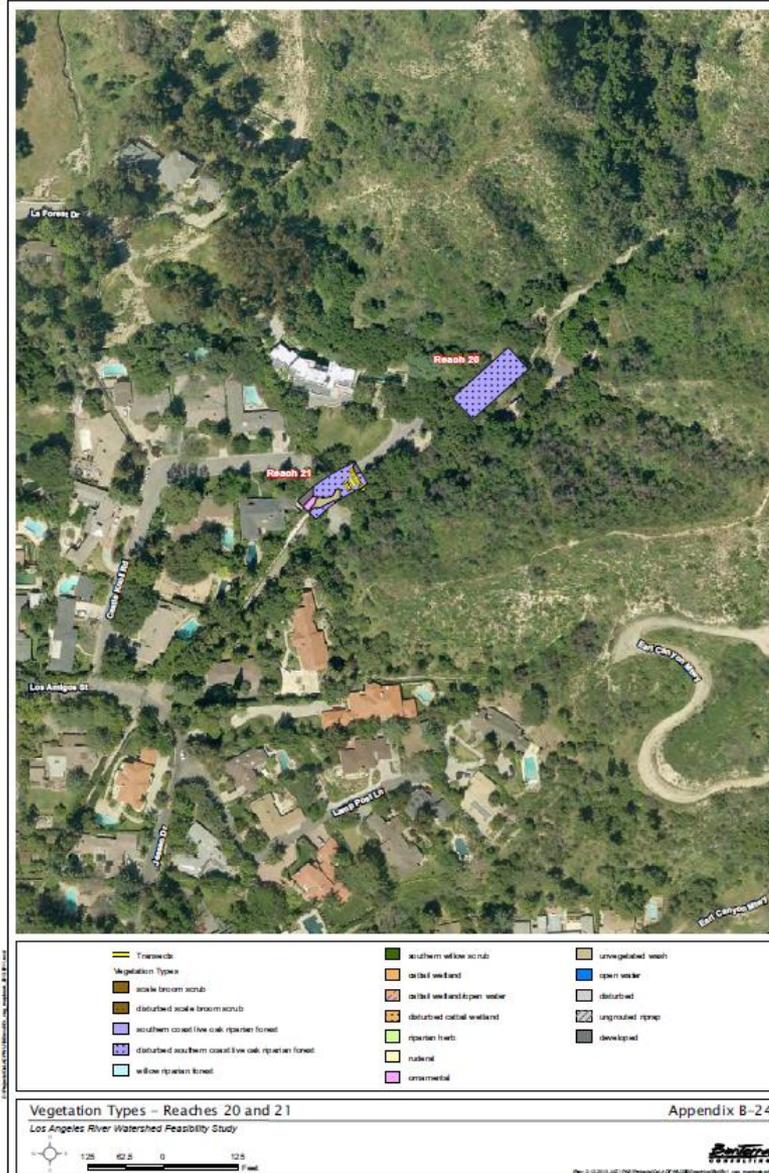
Reach 9 – Project 106 Outlet



Reach 19 – Pickens Canyon



Reach 21 – Webber Channel (Main)



Reach 22 – Halls Canyon



